Guyheshwory Secondary School,

Sinamangal, Kathmandu

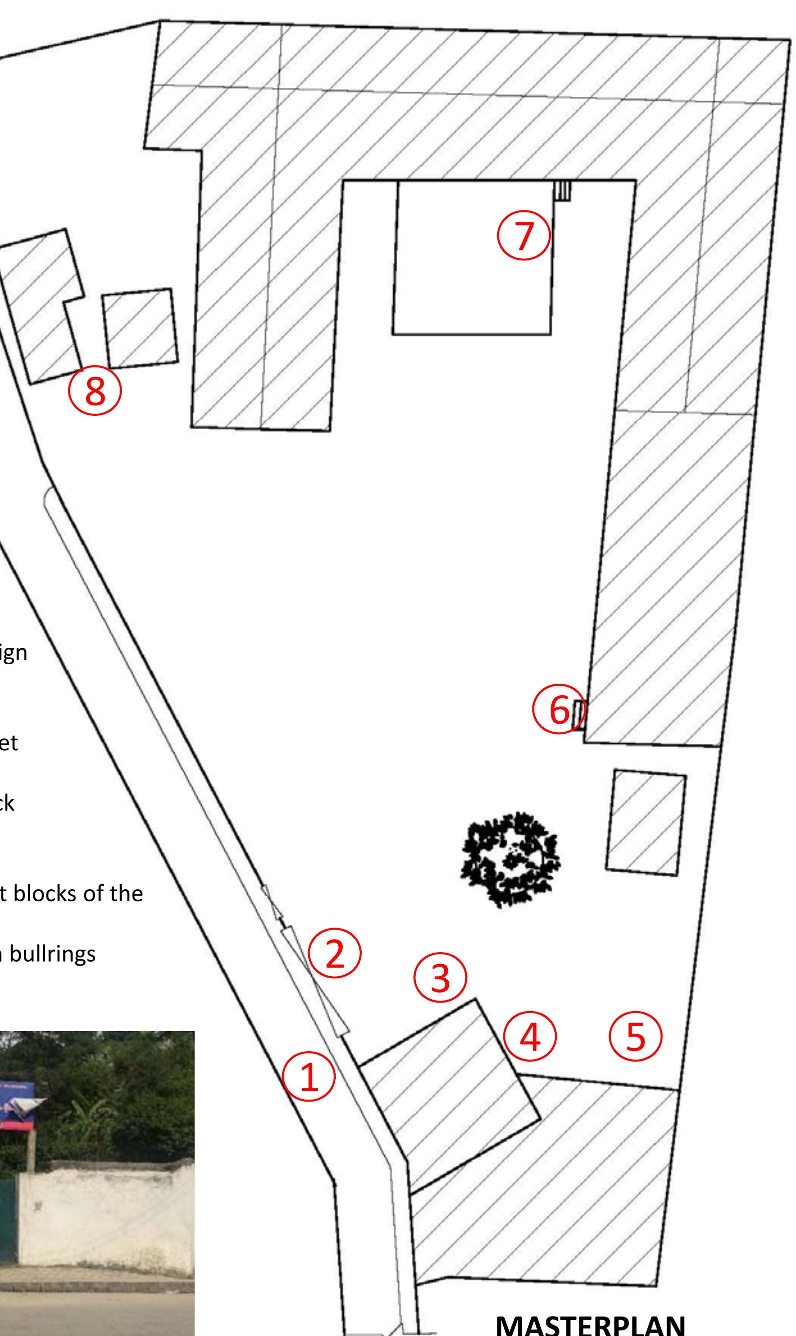
Detail Design

30th November, 2017

राष्ट्रिय अपाङ्ग महासँघ नेपाल
National Federation of the Disabled - Nepal

GUHYESHWORY SECONDARY SCHOOL

N



MASTERPLAN
(NOT IN SCALE)

DESIGNS:

1. Footpath maintenance and ramp design
2. Main entrance maintenance
3. Signage and thematic map
4. Maintenance of path to universal toilet
5. Proposed universal toilet
6. Proposed ramp design for library block
7. Proposed ramp for patio
8. Proposed ramp for cafeteria
9. Signage (with Braille) on the different blocks of the school
10. Maintenance of the corridors of main bullrings



Main entrance



Patio



Library entrance



Pathway to Toilet

REVISIONS

ISSUE	AMENDMENT	DATE
A	Accessibility Audit	04.10.2017
B	Recommendations	06.10.2017
C	Preliminary Design & Design Discussion	18.10.2017
D	Design Finalization	05.11.2017
E	Detail Design & BOQ	30.11.2017

PROJECT BY
National Federation of the Disabled- Nepal (NFDN)

PROJECT
Guyheshwory Secondary School, Sinamangal, Kathmandu

DRAWING TITLE
RECOMMENDATIONS

DESIGN BY
SQUARE UNIT PVT. LTD.
asquareunit@gmail.com

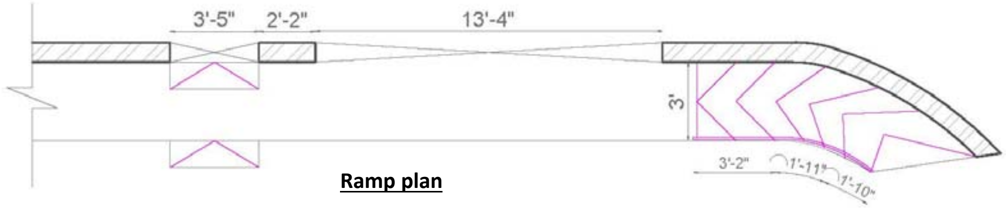
DRAWN BY	SCALE	DATE
Ar. Ashish. Adhikari	N/A	30.11.2017

DRAWING NAME	REVISION
SU/A-1	A

Ramp Designs

Ramp on the Entrance

- Ramp width is 36” , including space of grab bars.
- Slope of ramp is 1:12
- Surface of ramp is slip-resistant.



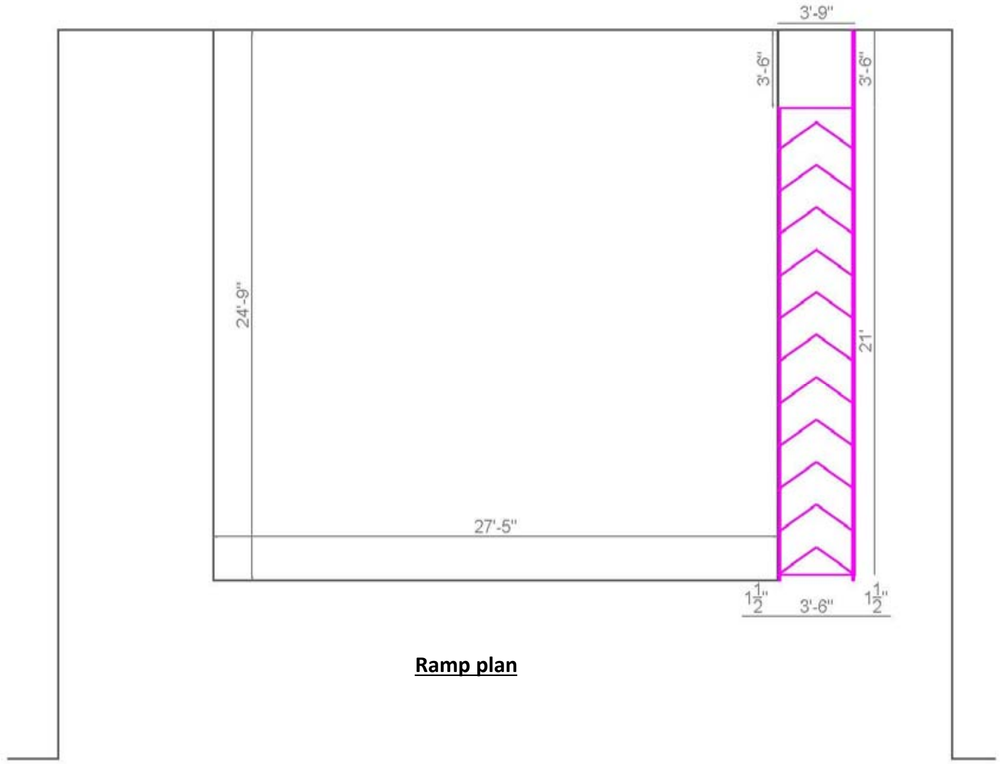
Ramp plan

Ramp on Patio

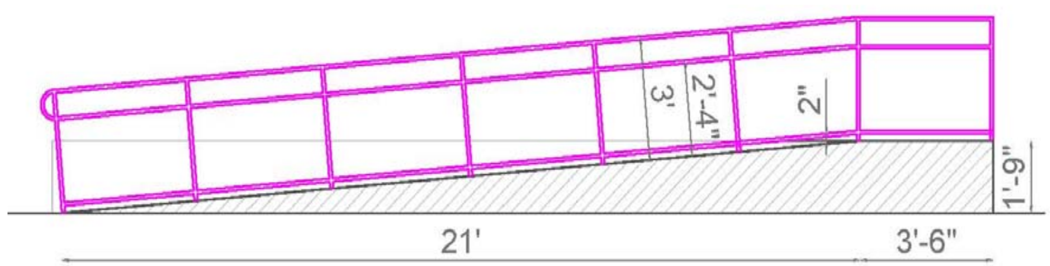
- Ramp width is 42” , including space of grab bars.
- Slope of ramp is 1:12
- Surface of ramp is slip-resistant.

Railing

- Hand railing is present in both side of the ramp.
- The height of hand railing is 36” and 28” from surface of the ramp.
- 2” high side rail in made in both sides.
- Handrail gripping surface is 1.5” in diameter



Ramp plan



Ramp section

Dimension, areas and levels where given are only approximate and subject to site survey.
All dimensions are to be checked on site. Any discrepancies are to be reported to the architect before the work commences.
Figured dimensions only are to be taken from this drawing.
This drawing is to be read in conjunction with all relevant consultants’ and/ or specialists drawing/ documents and any discrepancies or variations are to be notified to the architect before the affected work commences.

REVISIONS

ISSUE	AMENDMENT	DATE
A	Accessibility Audit	04.10.2017
B	Recommendations	06.10.2017
C	Preliminary Design & Design Discussion	18.10.2017
D	Design Finalization	05.11.2017
E	Detail Design & BOQ	30.11.2017

PROJECT BY
National Federation of the Disabled- Nepal (NFDN)

PROJECT
Guyheshwory Secondary School, Sinamangal, Kathmandu

DRAWING TITLE
RAMP DETAILS

DESIGN BY
SQUARE UNIT PVT. LTD.
asquareunit@gmail.com

DRAWN BY	SCALE	DATE
Ar. Ashish. Adhikari	1/4”=1’-0”	30.11.2017

DRAWING NAME	REVISION
SU/A-2a	A

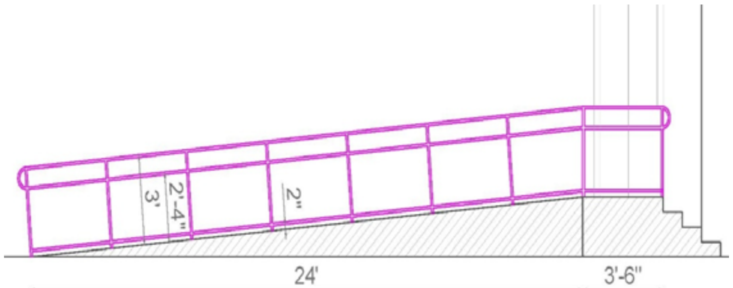
Ramp Designs

Ramp on Library block

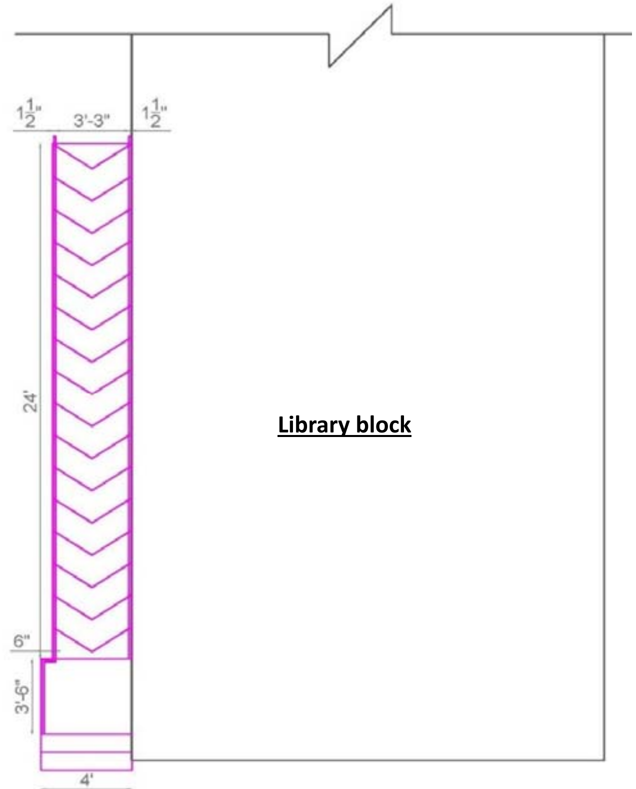
- Ramp width is 39” , excluding space of grab bars
- Slope of ramp is 1:12
- Surface of ramp is slip-resistant.

Railing

- Hand railing is present in both side of the ramp.
- The height of hand railing is 36” and 28” from surface of the ramp.
- 2” high side rail in made in both sides.
- Handrail gripping surface is 1.5” in diameter



Ramp section



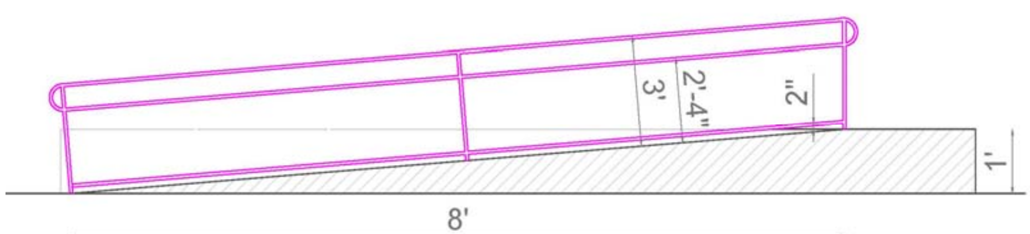
Ramp plan

Ramp on Cafeteria

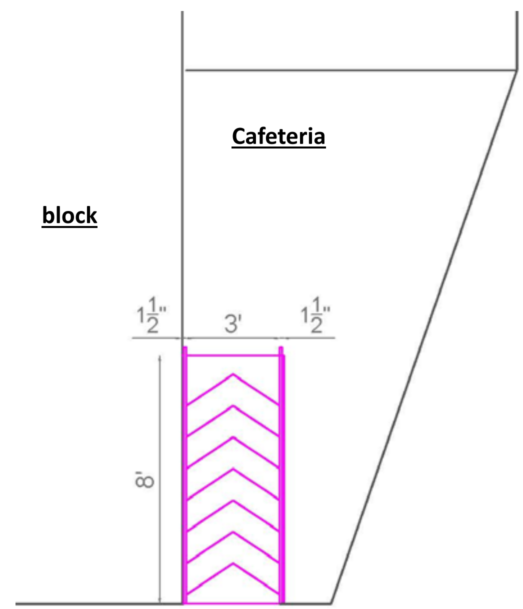
- Ramp width is 36” , excluding space of grab bars.
- Slope of ramp is 1:8.
- Surface of ramp is slip-resistant.

Railing

- Hand railing is present in both side of the ramp.
- The height of hand railing is 36” and 28” from surface of the ramp.
- 2” high side rail in made in both sides.
- Handrail gripping surface is 1.5” in diameter



Ramp section



Ramp plan

Dimension, areas and levels where given are only approximate and subject to site survey.
All dimensions are to be checked on site. Any discrepancies are to be reported to the architect before the work commences.
Figured dimensions only are to be taken from this drawing.
This drawing is to be read in conjunction with all relevant consultants’ and/ or specialists drawing/ documents and any discrepancies or variations are to be notified to the architect before the affected work commences.

REVISIONS

ISSUE	AMENDMENT	DATE
A	Accessibility Audit	04.10.2017
B	Recommendations	06.10.2017
C	Preliminary Design & Design Discussion	18.10.2017
D	Design Finalization	05.11.2017
E	Detail Design & BOQ	30.11.2017

PROJECT BY
National Federation of the Disabled- Nepal (NFDN)

PROJECT
Guyheshwory Secondary School, Sinamangal, Kathmandu

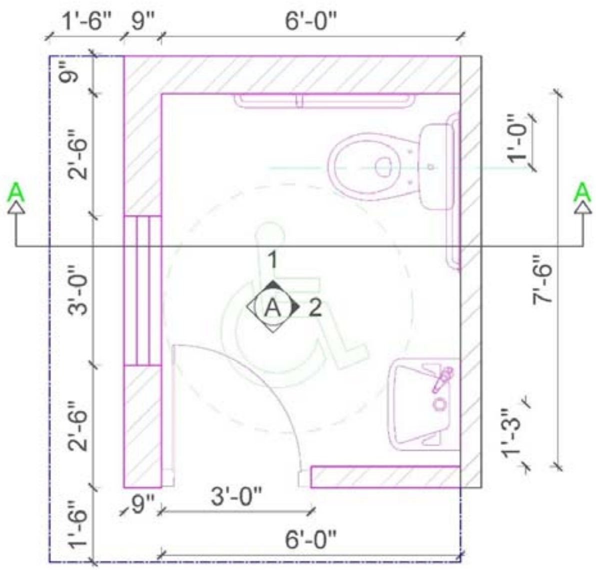
DRAWING TITLE
RAMP DETAILS

DESIGN BY
SQUARE UNIT PVT. LTD.
SQUARE UNIT PVT. LTD.
asquareunit@gmail.com

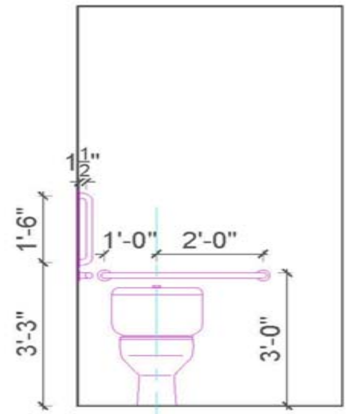
DRAWN BY	SCALE	DATE
Ar. Ashish. Adhikari	1/4”=1’-0”	30.11.2017

DRAWING NAME	REVISION
SU/A-2b	A

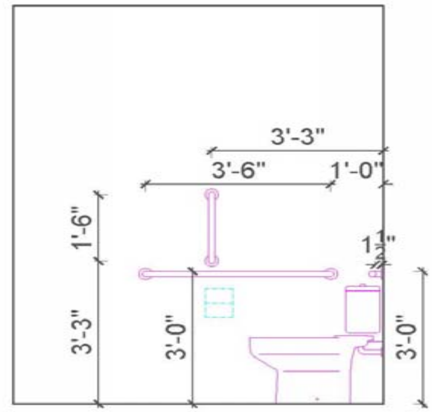
Universal toilet design



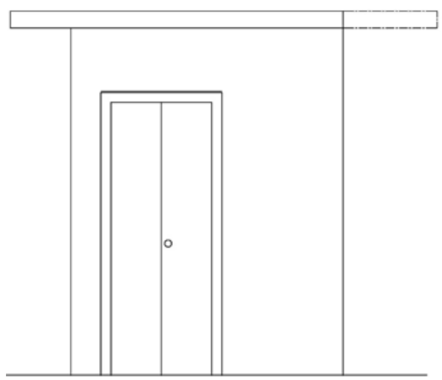
Toilet Detail



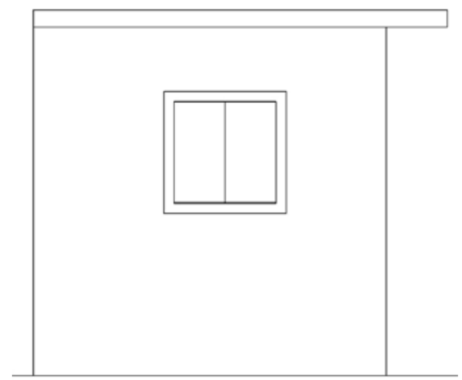
Elevation A1



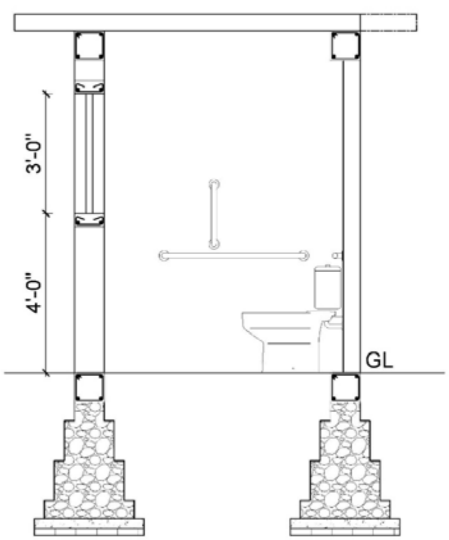
Elevation A2



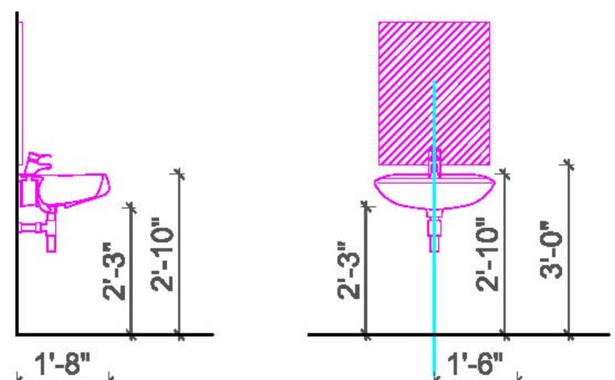
Front elevation



Side elevation



Section at A-A



Wash Basin Detail

Dimension, areas and levels where given are only approximate and subject to site survey.
All dimensions are to be checked on site. Any discrepancies are to be reported to the architect before the work commences.
Figured dimensions only are to be taken from this drawing.
This drawing is to be read in conjunction with all relevant consultants' and/ or specialists drawing/ documents and any discrepancies or variations are to be notified to the architect before the affected work commences.

REVISIONS

ISSUE	AMENDMENT	DATE
A	Accessibility Audit	04.10.2017
B	Recommendations	06.10.2017
C	Preliminary Design & Design Discussion	18.10.2017
D	Design Finalization	05.11.2017
E	Detail Design & BOQ	30.11.2017

PROJECT BY
National Federation of the Disabled- Nepal (NFDN)

PROJECT
Guyheshwory Secondary School, Sinamangal, Kathmandu

DRAWING TITLE
UNIVERSAL TOILET

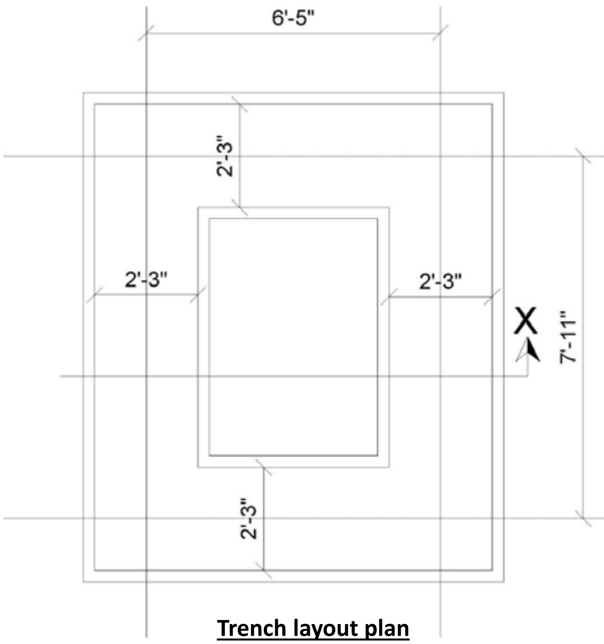
DESIGN BY
SQUARE UNIT PVT. LTD.

SQUARE UNIT PVT. LTD.
asquareunit@gmail.com

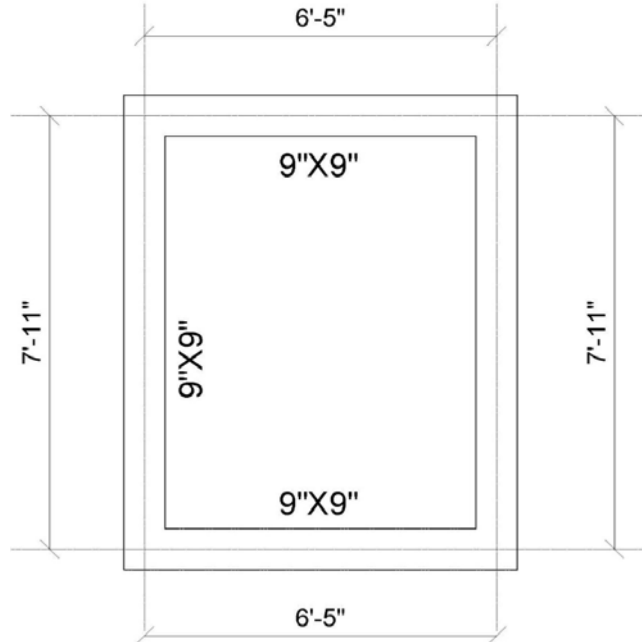
DRAWN BY	SCALE	DATE
Ar. Ashish. Adhikari	1/8"=1'-0"	30.11.2017

DRAWING NAME	REVISION
SU/A-2c	A

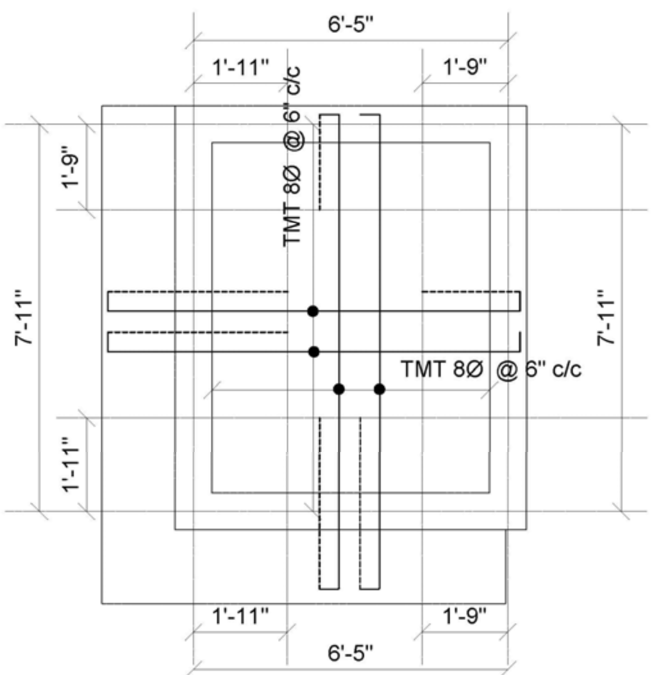
Universal toilet structure drawings



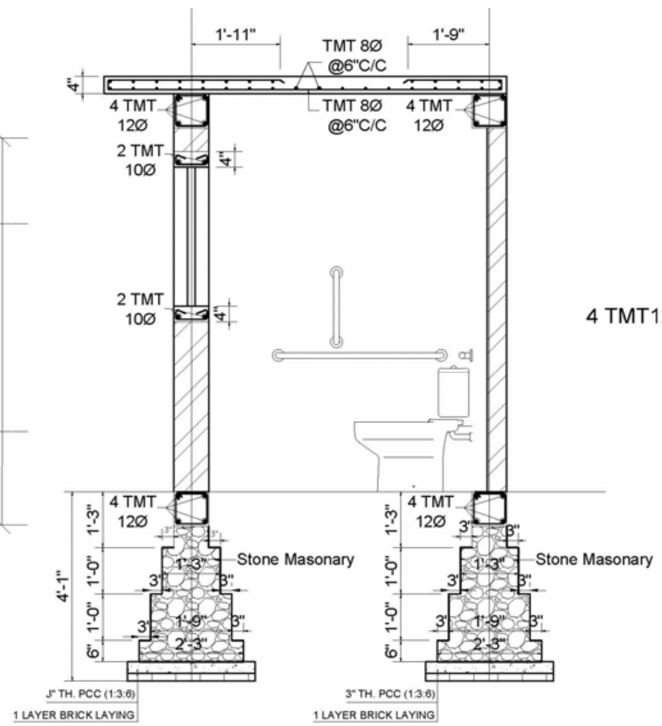
Trench layout plan



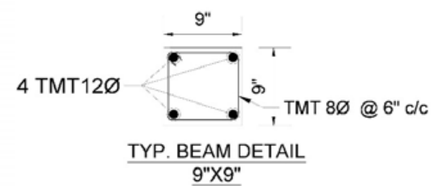
Beam layout plan



Slab reinforcement detail
Thickness = 4"



Section at X-X



Beam detail

Dimension, areas and levels where given are only approximate and subject to site survey.
All dimensions are to be checked on site. Any discrepancies are to be reported to the architect before the work commences.
Figured dimensions only are to be taken from this drawing.
This drawing is to be read in conjunction with all relevant consultants' and/ or specialists drawing/ documents and any discrepancies or variations are to be notified to the architect before the affected work commences.

REVISIONS

ISSUE	AMENDMENT	DATE
A	Accessibility Audit	04.10.2017
B	Recommendations	06.10.2017
C	Preliminary Design & Design Discussion	18.10.2017
D	Design Finalization	05.11.2017
E	Detail Design & BOQ	30.11.2017

PROJECT BY
National Federation of the Disabled- Nepal (NFDN)

PROJECT
Guyheshwory Secondary School, Sinamangal, Kathmandu

DRAWING TITLE
UNIVERSAL TOILET: STRUCTURE

DESIGN BY
SQUARE UNIT PVT. LTD.
asquareunit@gmail.com

DRAWN BY	SCALE	DATE
Ar. Ashish. Adhikari	1/8"=1'-0"	30.11.2017

DRAWING NAME	REVISION
SU/A-2d	A

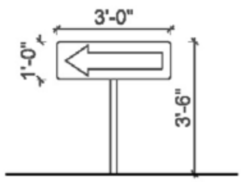
Signage Color Contrast and Toilet details

Signage

- Universal signage has following components: (Color contrasts signs, Character, content and layout, Pictograms and accessibility symbols, Positioning, Viewing distance, lighting)
- Braille and tactile signage should be placed at a height between 3 feet to 5 feet. Ideal location at 3 feet 6 inches above the finished level.

Color Contrast

- Text should contrast with sign background
- Sign should contrast with environment
- 70% contrast between wall and sign panels
- Avoid shades of colors
- Avoid using same color as safety signs
- Maximum 5 colors
- Non reflective surface
- Schedule for color contrast with sign background is given in following table:



Signage Sample

Background	Sign Board	Legend
Red Brick or Dark Stone	White	Black, dark green or dark blue
Light brick or light stone	Black/Dark	White or Yellow
Whitewashed walls	Black/Dark	White/Yellow
Green Vegetation	White	Black, dark green or dark blue
Back-lit sign	Black	White or Yellow

Wash basin

The top surface of wash basin is 34 inches high above the floor.
At least 27 inches clearance from the floor to the bottom of wash basin that extends at least 8 inches under the basin for knee clearance
18-24 inches of the clear floor space extend under the basin so that a person using a wheelchair can get close enough to reach the faucet.

Mirror

Bottom edge of the reflecting surface no higher than 36 inches above the floor.

Horizontal Side Grab Bar

42 inches long Grab bar on the side wall.
Located 12 inches from the rear wall.
Mounted 36 inches above the floor to the top of the gripping surface.

Vertical Side Grab Bar

18 inches long Grab bar on the side wall.
Located 39 inches from the rear wall.
Mounted such that the lower end is 39 inches above the floor.

Rear Grab Bar

The grab bar at least 36 inches long on the rear wall.
It extends at least 12 inches from the centerline of the water closet on one side (side wall).
It extend at least 24 inches on the other (open) side.
It is mounted no less than 36 inches above the floor to the top of the gripping surface.

REVISIONS

ISSUE	AMENDMENT	DATE
A	Accessibility Audit	04.10.2017
B	Recommendations	06.10.2017
C	Preliminary Design & Design Discussion	18.10.2017
D	Design Finalization	05.11.2017
E	Detail Design & BOQ	30.11.2017

PROJECT BY
National Federation of the Disabled- Nepal (NFDN)

PROJECT
Guyheshwory Secondary School, Sinamangal, Kathmandu

DRAWING TITLE
DETAILS

DESIGN BY
SQUARE UNIT PVT. LTD.
SQUARE UNIT PVT. LTD.
asquareunit@gmail.com

DRAWN BY	SCALE	DATE
Ar. Ashish. Adhikari	N/A	30.11.2017

DRAWING NAME	REVISION
SU/A-2e	A